	Application No.	Applicant(s)
Notice of Allowability	09/519,408	NAKAMURA ET AL.
	Examiner	Art Unit
	Wai-Sing Louie	2814
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to 9/11/03.		
2. X The allowed claim(s) is/are 16 and 19-29.		
3. The drawings filed on 03 March 2000 are accepted by the Examiner.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have been received.</li> <li>2.  Certified copies of the priority documents have been received in Application No</li> </ul>		
3.  Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
6. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5 □ Notice of Informal F	Patent Application (PTO-152)
2. ☐ Notice of Praftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary	• • • • • • • • • • • • • • • • • • • •
	Paper No./Mail Da	ite
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 9/03</li> </ol>		
4.   Examiner's Comment Regarding Requirement for Deposit	<del></del>	ent of Reasons for Allowance
of Biological Material	9.	

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## **DETAILED ACTION**

The appeal brief has overcome the rejection of previous office action. The finality is withdrawn.

## Allowable Subject Matter

Claims 16 and 19-29 are allowed. The following is an examiner's statement of reasons for allowance:

The claimed invention is a semiconductor light-emitting device comprising:

- A substrate having a back surface provided with an n-type lower electrode;
- A light-emitting layer provided on the substrate;
- A p-type semiconductor layer provided on the light-emitting layer, and
- An upper electrode provided on the p-type semiconductor layer, where the upper electrode includes an Au thin film positioned in contact with the p-type semiconductor layer and an n-type transparent semiconductor film formed on said Au thin film; and wherein the Au thin film has a thickness of 1 nm to 3 nm and the n-type transparent semiconductor film is made of In<sub>2</sub>O<sub>3</sub>-10 wt.% ZnO

Reference Ishibashi et al. (US 5,617,446) do not disclose forming an n-type semiconductor layer on top of the thin Au film and the Au film has a thickness of 1 to 3 nm.

Reference Kazuyishi et al. (JP 06-318406) do not disclose a thin Au film underneath the IZO transparent electrode.

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Therefore, the above references do not disclose the claimed invention of present application and claims 16 and 19-29 are allowed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Wai-Sing Louie whose telephone number is (571) 272-1709. The examiner can normally be reached on 7:30 AM to 4:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

LONG HÂM PRIMARY EXAMMER Application/Control Number: 09/519,408

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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February 24, 2004.